ITU-T Q.623

INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

INTERWORKING OF SIGNALLING SYSTEMS

LOGIC PROCEDURES FOR OUTGOING SIGNALLING SYSTEM No. 6

ITU-T Recommendation Q.623

(Extract from the *Blue Book*)

NOTES

1   ITU-T Recommendation Q.623 was published in Fascicle VI.6 of the *Blue Book*. This file is an extract from the *Blue Book.* While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2   In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Recommendation Q.623

LOGIC PROCEDURES FOR OUTGOING SIGNALLING SYSTEM No. 6
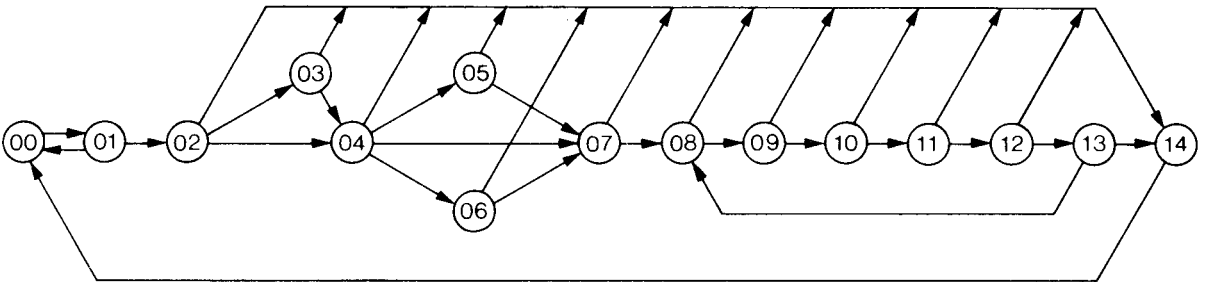
CCITT-48610

State number	State description	Sheet reference	Timers running
00	Idle	1, 5	
01	Wait for FITEs OF IAM	1	
02	Wait for continuity check	2	t_1, t_2
03	Wait for continuity indicator	2	t_2
04	Wait for address-complete	3	t_2
05	Wait for answer	3	
06	Wait for answer (subscriber free)	4	
07	Answered	4	
08	Clear-back 1	4	
09	Reanswer 1	4	
10	Clear-back 2	4	
11	Reanswer 2	5	
12	Clear-back 3	5	
13	Reanswer 3	5	
14	Wait for release-guard	5	t_3, t_4

FIGURE 1/Q.623

State overview diagram for outgoing Signalling System No. 6

Supervisory timers for outgoing Signalling System No. 6

$t_1 = 2s$ Recommendation Q.271, § 5.7.1
$t_2 = 20\text{-}30s$ Recommendation Q.268, § 4.8.5.1, a)
$t_3 = 4\text{-}15s$ Recommendation Q.268, § 4.8.2.3
$t_4 = 1$ min. Recommendation Q.268, § 4.8.2.3, a)
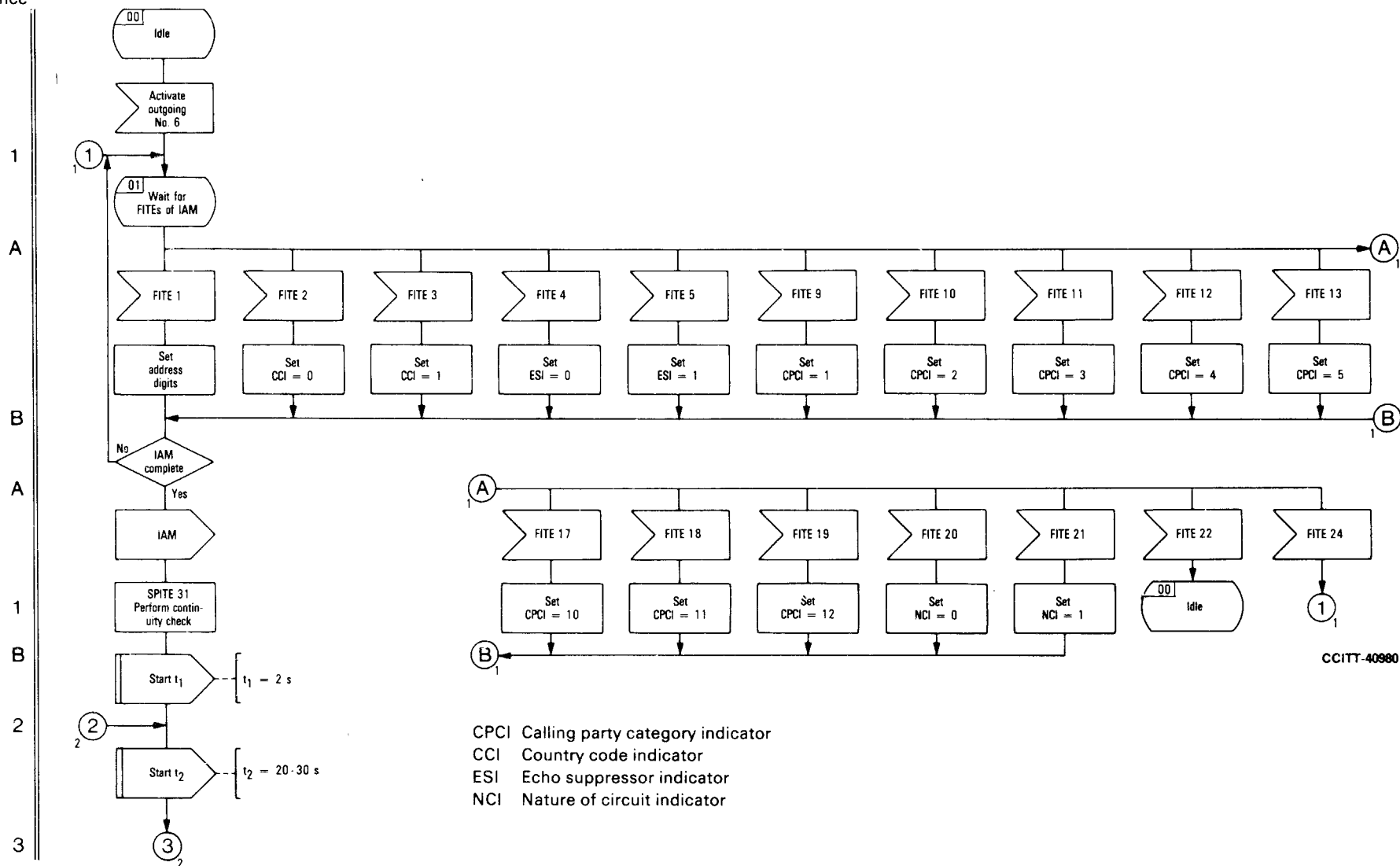
Procedures not shown

The following procedures, not directly relevant to interworking, are not shown in the logic procedures:

- Dual seizure.
- Blocking and unblocking sequences.
- Unreasonable sequences.
- Confusion and message refusal signals.
- Reset circuit/band procedures.
- Test call procedures.
- Out of service.

Signal abbreviations used

The signal abbreviations used correspond to those of the Signalling System No. 6 specifications unless otherwise indicated on the same sheet.

FIGURE 2/Q.623

Notes to outgoing Signalling System No. 6

Connector
reference

CCITT-40980

CPCI   Calling party category indicator
CCI   Country code indicator
ESI   Echo suppressor indicator
NCI   Nature of circuit indicator

FIGURE 3/Q.623 (Sheet 1 of 5)

Outgoing Signalling System No. 6
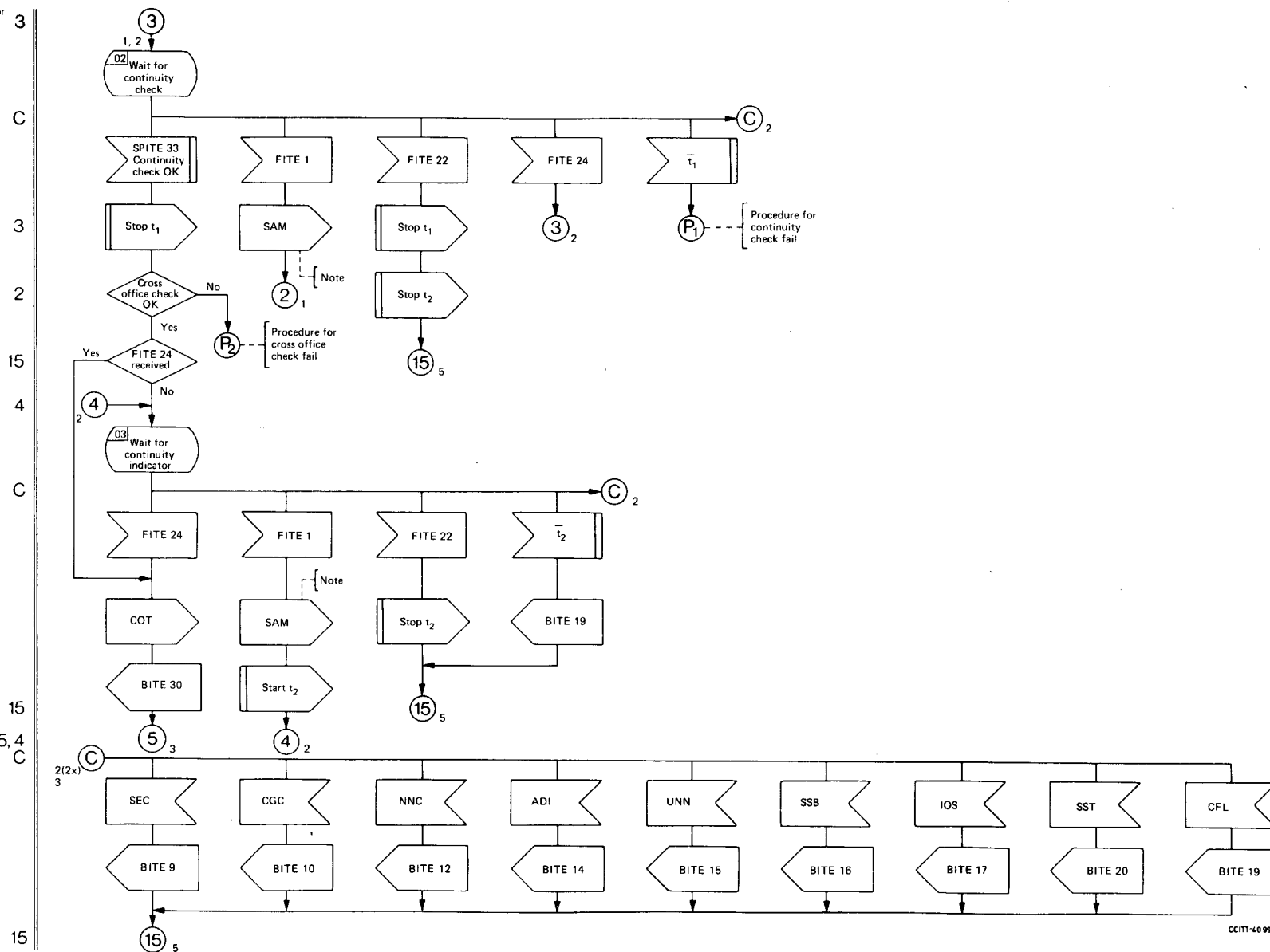
Fascicle VI.6 - Rec. Q.623

Connector reference 3

③
1, 2

02 Wait for continuity check

C

© 2

SPITE 33 Continuity check OK

FITE 1

FITE 22

FITE 24

t̄₁

3

Stop t₁

SAM

Stop t₁

③ ₂

P₁ --- Procedure for continuity check fail

2

Cross office check OK — No

② ₁ Note

Stop t₂

15

Yes

FITE 24 received

P₂ --- Procedure for cross office check fail

⑮ ₅

4

④ ₂ — No

03 Wait for continuity indicator

C

© ₂

FITE 24

FITE 1

FITE 22

t̄₂

COT

SAM — Note

Stop t₂

BITE 19

15

BITE 30

Start t₂

⑮ ₅

5, 4
C

⑤ ₃

④ ₂

© 2(2x) 3

SEC

CGC

NNC

ADI

UNN

SSB

IOS

SST

CFL

BITE 9

BITE 10

BITE 12

BITE 14

BITE 15

BITE 16

BITE 17

BITE 20

BITE 19

15

⑮ ₅

CCITT-40 991

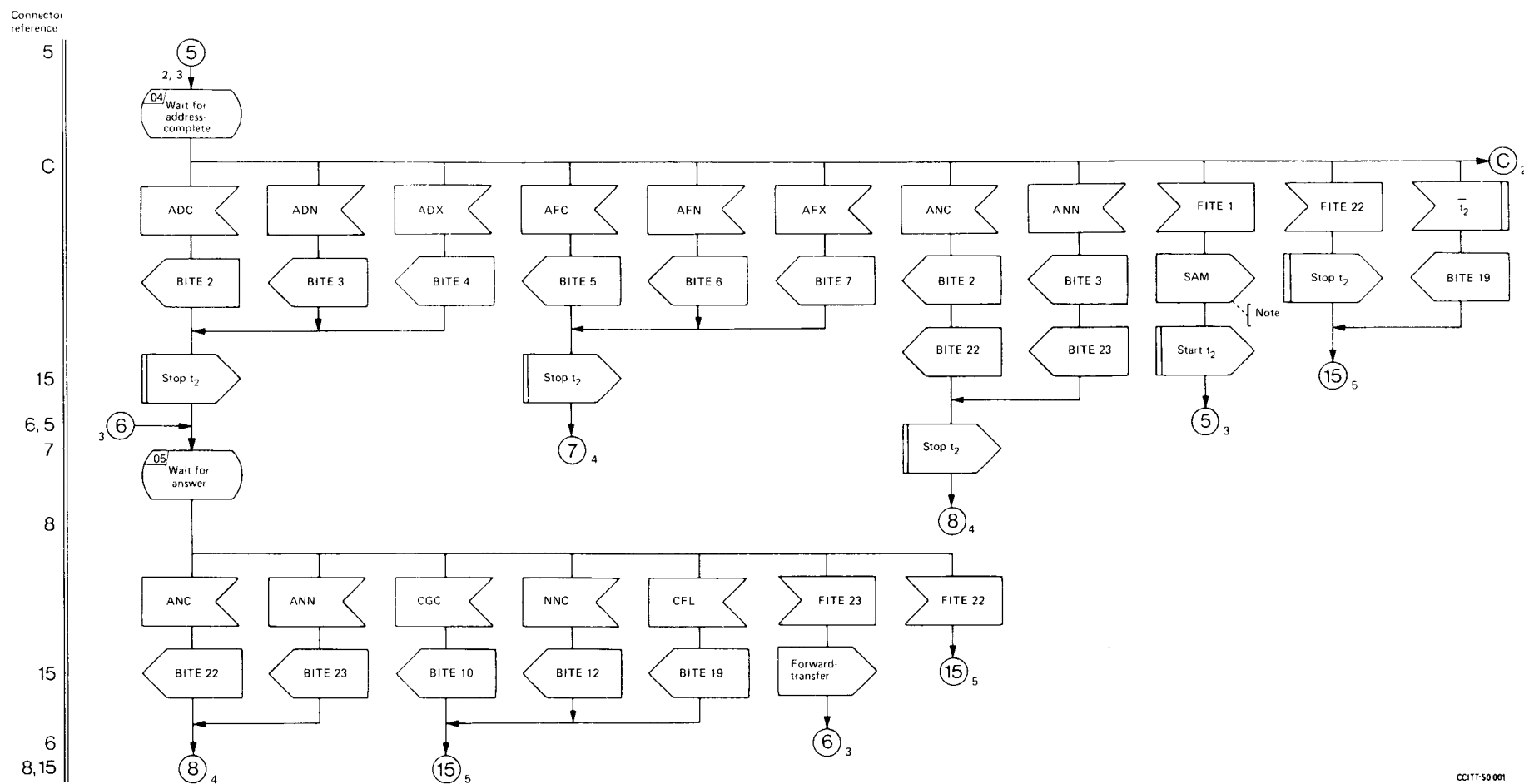*Note* — Digits should be forwarded to the outgoing link as soon as they are available. Multi digit SAMs should only be sent if more than one address digit is waiting.
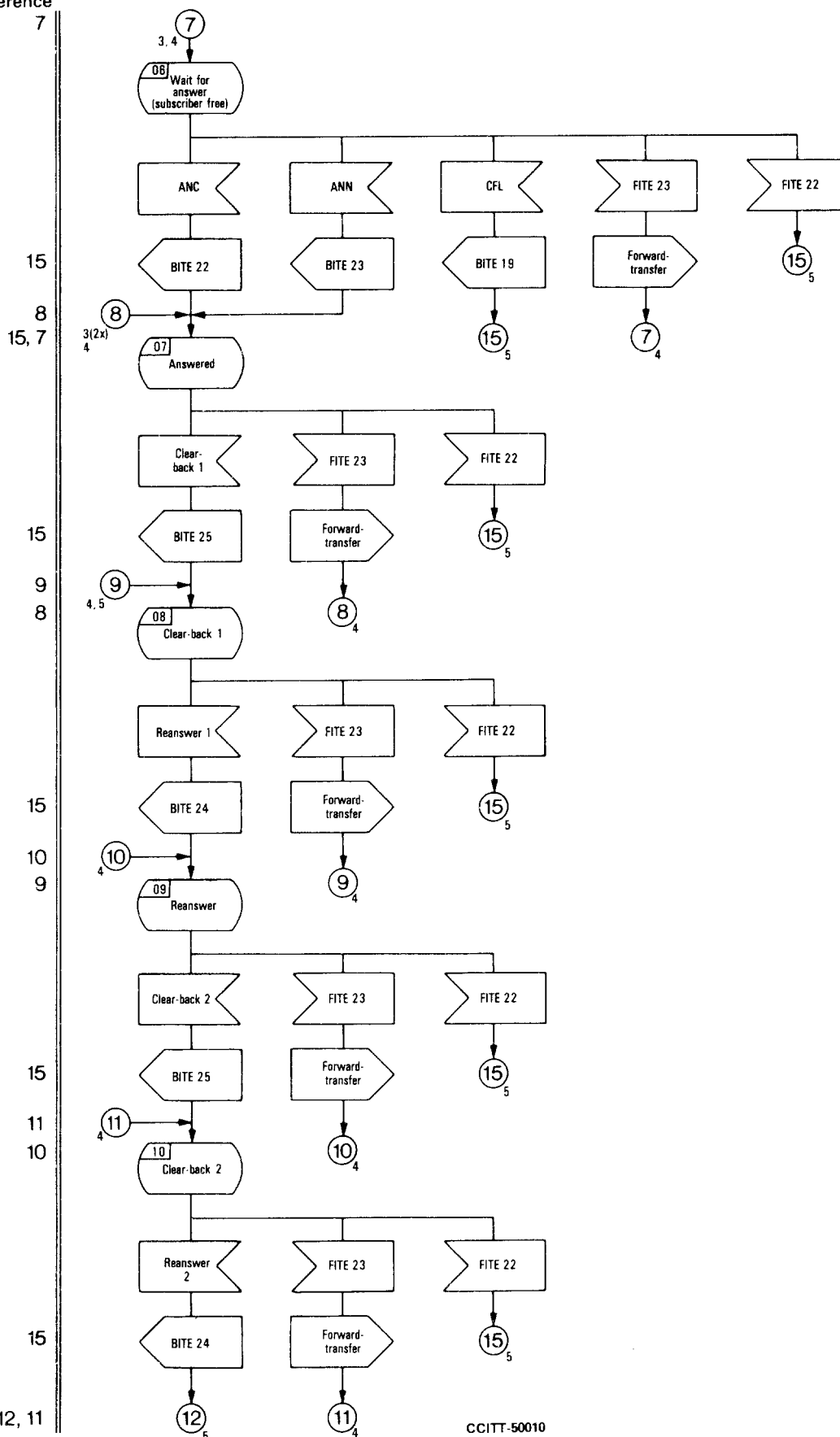
FIGURE 3/Q.623 (Sheet 2 of 5)

Outgoing Signalling System No. 6

3

Connector
reference

5

⑤
2, 3

04 Wait for
address-
complete

C   Ⓒ 2

| ADC | ADN | ADX | AFC | AFN | AFX | ANC | ANN | FITE 1 | FITE 22 | t₂ |

BITE 2   BITE 3   BITE 4   BITE 5   BITE 6   BITE 7   BITE 2   BITE 3   SAM   Stop t₂   BITE 19

{ Note

BITE 22   BITE 23   Start t₂

15

Stop t₂   Stop t₂

6, 5
7   ③⑥   ⑦ 4   Stop t₂   ⑤ 3   ⑮ 5

05 Wait for
answer

8   ⑧ 4

| ANC | ANN | CGC | NNC | CFL | FITE 23 | FITE 22 |

15

BITE 22   BITE 23   BITE 10   BITE 12   BITE 19   Forward-transfer   ⑮ 5

6
8,15   ⑧ 4   ⑮ 5   ⑥ 3

CCITT-50 001

Note — Digits should be forwarded to the outgoing link as soon as they are available. Multi digit SAMs should only be sent if more than one address digit in waiting.
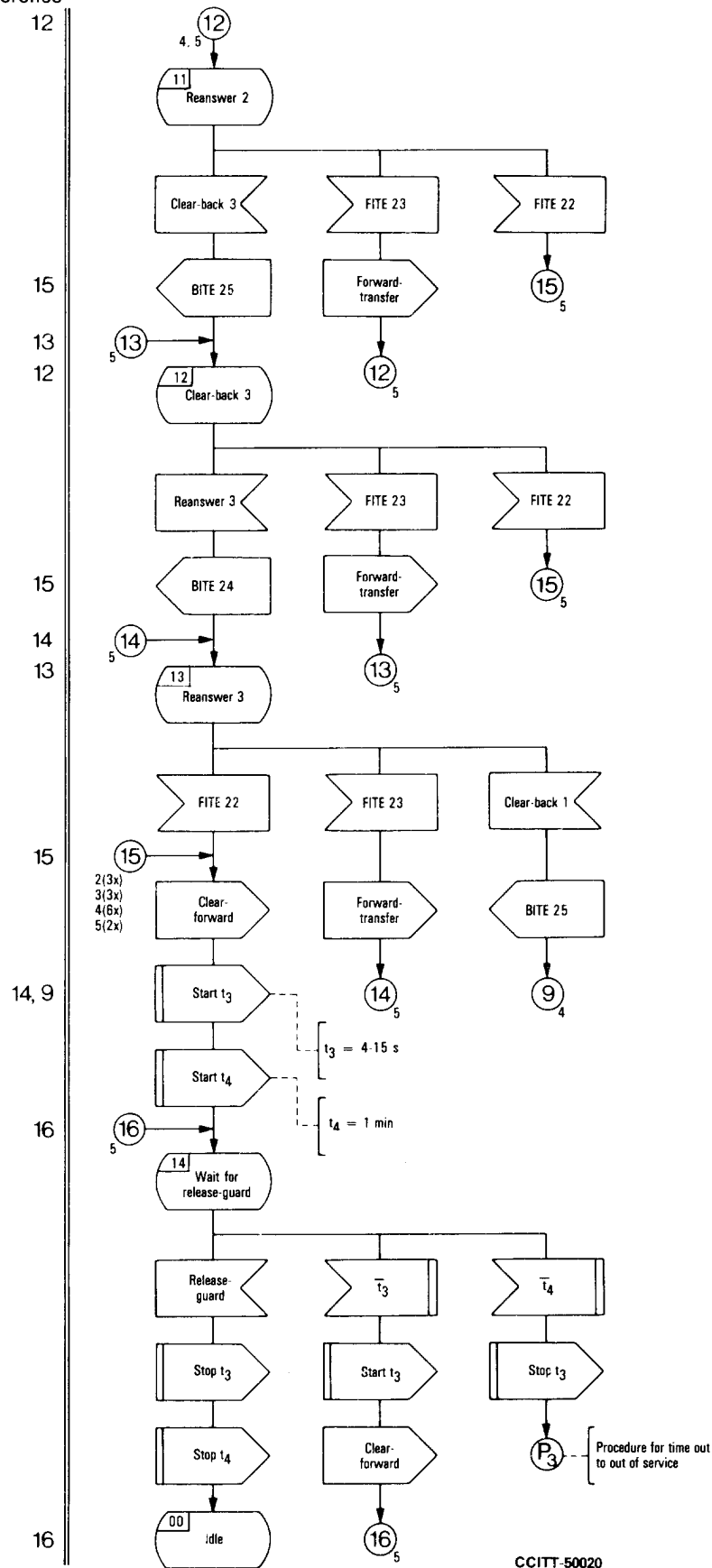
FIGURE 3/Q.623 (Sheet 2 of 5)

Outgoing Signalling System No. 6

Connector
reference

FIGURE 3/Q.623 (Sheet 4 of 5)
Outgoing Signalling System No. 6

FIGURE 3/Q.623 (Sheet 5 of 5)

Outgoing Signalling System No. 6